CL #2

PAGE: 1

#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:48:56

INPUT SET: S2395.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

wrapped text SEQUENCE LISTING 1 2 General Information: 3 (1) 4 start response on this line 5 (i) APPLICANTS: Hauptmann, R. 6 7 Falkner, E. 8 Bodo, G. 9 VoÃ, T. Maurer- Fogy, I. 10 11 12 (ii) TITLE OF INVENTION: Process for Preparing and Purifying alpha-Interferon 13 14 (iii) NUMBER OF SEQUENCES: 12 15 16 17 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox 18 (B) STREET: 1100 New York Avenue, Suite 600 19 20 (C) CITY: Washington (D) STATE: D.C. 21 (E) COUNTRY: U.S.A. 22 (F) ZIP: 20005 23 24 25 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk 26 (B) COMPUTER: IBM PC compatible 27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO) 29 30 (vi) CURRENT APPLICATION DATA: 31 32 (A) APPLICATION NUMBER: (B) FILING DATE: herewith 33 Debe space (C) CLASSIFICATION: (viii) ATTORNEY AGENT TOTALE: 36 (A) NAME: Esmond, Robert W. RWE/EG 37 (B) REGISTRATION NUMBER: 32,893 38 39 (C) REFERENCE/DOCKET NUMBER: 0652.1350000 40 (ix) TELECOMMUNICATION INFORMATION: 41 (A) TELEPHONE: (202) 371-2600 42 (B) TELEFAX: (202) 371-2540 43 44 45

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:49:05

INPUT SET: S2395.raw

#### **ERRORED SEQUENCES FOLLOW:**

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 66
 67
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 70
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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:49:13

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186	AGA	CGT	GAC	ጥጥጥ	GGA	ጥጥጥ	CCC	CAG	GAG	GAG	ጥጥጥ	GGC	AAC	CAG	ጥጥር	CAA
187			00		00		-	0.10	00	00				00		<b></b>
188	144															
189		7 200	Asp	Dho	Glar	Dho	Dro	Gla	Gl 11	Glu	Dho	Clar	7 cn	Gl n	Dho	Cln
	Arg	Arg	_	FIIE	Gry	PHE	PIO	40	GIU	GIU	FILE	GIY		GIII	FIIE	GIII
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191		a.a.m	~~~			aam	ama	ama	<b>63.5</b>	a.a			~~~	a. a		mma
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194	192					_	<b>-</b>	_								
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220	GIU	Asp	115	110	цец	лта	Val	120	цуз	- y -	FIIC	0.1.11	125	110		шси
221			113					120					123			
222	ጥለጥ	CTC	AAA	G)/G	አአር	א א א	<b>ሞአ</b> ሮ	אמכ	ССТ	ጥረጥ	GCC	таа	CAC	Стт	GTC	AGA
	IAI	CIG	AAA	GAG	HAG	AAA	IAC	AGC	CCI	161	GCC	100	GAG	GII	GIC	AGA
223	432															
224		T	T	<b>a</b> 1	T	T	m	C	Dage	C	77.	m	~1	1707	3707	7 ~~
225	Tyr		Lys	GIU	ьys	ьуѕ		ser	PIO	Cys	Ата		GIU	vaı	vai	Arg
226		130					135					140				
227	~~~	~~~		3 000		mam		mam	mma	mar.	707	770	mma	~~~	(17.7	7 (10)
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230	480	~ 7			_	<b>a</b> -	D.1-	<b>a</b> -	<b>.</b>	<b>a</b> -	CT1-	7	<b>.</b>	<b>a</b> 1 -	<b>a</b> 1	0
231		Glu	Ile	Met	Arg		Pne	ser	ьeu	ser		Asn	ьeu	GIN	GIU	
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234		AGA	AGT	AAG	GAA											
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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

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	294	
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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

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387	GAATTGG	AGA	TTAT	CGTC	AC T	GCAA'	TGCT'	r cg	CAAT	ATGG	CGC	'AAAA	ГGA			
388	CCAACAG															
389	60															
390		13 ma	3 aam	7 C 7 C	aa a	~~~		~ ~~	~~m».		aaa	3 maa	<b>73</b> 6			
391 392	TTGATTG CATTCCT		AGGT	AGAG	ای کان	الالالالا	TGTA(	C GA	JGTA!	AAGC	CCG	ATGC	CAG			
393	120	Oric														
394																
395	GACGATA		AGCT	GCTG	CG C	GATT.	ACGT	A AA	GAAG'	TAT	TGA	AGCA'	rcc			
396 397	TCGTCAG	TAA														
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400	TAGTCGC	TTT														
401 402	240															
402	GTTTTTA	ייייייי.	מידידים	<b>ል</b> ጥርጥ:	יידי ידי ע	таст	CGAG	A GG'	rtga(	зстс	ΔΨΨ	ים ידים	rg A	ב בב	AG	
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406													et Ly	ys L	ys	
407 408												- 7	23			
409	AAT ATC	GCA	TTT	CTT	CTT	GCA	TCT	ATG	TTC	GTT	TTT	TCT	ATT	GCT	ACA	
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411	Asn Ile	Ala	Phe	Leu		Ala	Ser	Met	Phe		Phe	Ser	Ile	Ala		
412	-20				-15					-10					-5	
413 414	AAT GCC	יים יי	GC A	ጥርጥ	СЪТ	СТС	ССТ	CAG	ממכ	СУТ	GGC	מידים	Стт	AGC	AGG	
415	1111 000		00	101	0111	010		00		0	-	0111	011	1100		
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417	Asn Ala	Tyr	Ala	-	Asp	Leu	Pro		Asn	His	Gly	Leu		Ser	Arg	
418 419				1				5					10			
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421																
422	438		_				_				_			_		
423	Asn Thr		Val	Leu	Leu	His		Met	Arg	Arg	Ile		Pro	Phe	Leu	
424 425		15					20					25				
426	TGT CTC	AAG	GAC	AGA	AGA	GAC	TTC	AGG	TTC	CCC	CAG	GAG	ATG	GTA	AAA	
427																
428	486					_		_		_	-: <b>-</b>				_	
429	Cys Leu	_	Asp	Arg	Arg		Phe	Arg	Phe	Pro		Glu	Met	Val	Lys	
430 431	30					35					40					
432	GGG AGC	CAG	TTG	CAG	AAG	GCC	CAT	GTC	ATG	TCT	GTC	CTC	CAT	GAG	ATG	
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435	Gly Ser	Gln	Leu	Gln		Ala	His	Val	Met		Val.	Leu	His	Glu		
436 437	45				50					55					60	
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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:49:48

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444	TGG	AAC	ATG	ACC	CTC	CTA	GAC	CAA	CTC	CAC	ACT	GGA	CTT	CAT	CAG	CAA
445	630															
446 447		λan	Mot	Thr	LOU	LOU	7 cn	Cln	T 011	Шic	Thr	C137	T 011	Uic	Cln	Cln
448	тър	ASII	MEL	80	пеп	пец	Asp	GIII	85	1113	1111	Gry	пеп	90	GIII	GIII
449				00					03					20		
450	СТС	CAA	CAC	СТС	GAG	ACC	TGC	TTG	СТС	CAG	СΤΆ	GTG	GGA	GAA	GGA	GAA
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460		110					115					120				
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463 464	774															
464		Gl <sub>37</sub>	Tla	Arg	val	Тиг	Leu	Laze	Glu	Laze	Lare	Туг	Car	Λen	Cvc	בומ
466	125	GLY	116	Arg	vai	130	цец	шуз	GIU	шуз	135	- y -	DCI	АЗР	Cys	140
467	123					130					133					110
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477	Asn	Met	GIn	Glu	Arg	Leu	Arg	Ser		Asp	Arg	Asp	Leu		Ser	ser
478				160					165					170		
479 480	תראז	ላ አጥሮን	ייייי ע	CTCAT	מייים איי	מית יחים	\	יייי	רידי אי	\ አ <i>ሮአር</i>	ביתיתים	כאכיז	\ <b>ጥረ</b> ፤ጥረ	יא מי		
481		GTC		JICA	IIGA.	LI AA	7111	JCCA.	. Alt	MUM	.110	CACE	11010	JAC		
482	930		****													
483	J J U															
484	TCA	AAAGA	ACT (	CTTAT	TTC	G C	TTA	ATCAC	AG	TTA	SACT	GAA'	rtag:	rtc		
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## RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

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596		TCGC'					1010	111111	1 01	10102	1000	CC02	10110	1111		
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598																
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602														et Ly	ys Ly	ys
603													-:	23		
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605 606	342	ATC	GCA	TTT	CII	CTT	GCA	TCT	ATG	TTC	GTT	1.1.1.	TCT	ATT	GCT	ACA
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624	486															
625	Cys	Leu	Lys	Asp	Arg	Arg	Asp	Phe	Gly	Phe	Pro	Gln	Glu	Glu	Phe	Gly
626		30					35					40				
627																
628	AAC	CAG	TTC	CAA	AAG	GCT	GAA	ACC	ATC	CCT	GTC	CTC	CAT	GAG	ATG	ATC
629																
630	534	~1 m	Dha	a1	T	71 a	a1	mb w	T1.	Dwo	370 J	T 011	TT i a	<i>α</i> 1	Mot	т1.
631 632	45	GIII	Phe	GIII	гуѕ	50	GIU	THE	тте	PIO	55	ьeu	птр	GIU	Mec	60
633	43					30					55					00
634	CAG	CAG	АТС	ттс	таа	СТС	TTC	AGC	ACA	AAG	GAC	TCA	тст	GCT	GCT	TGG
635																
636	582															
637	Gln	Gln	Ile	Phe	Asn	Leu	Phe	Ser	Thr	Lys	Asp	Ser	Ser	Ala	Ala	Trp
638					65					70					75	
639																
640	GAT	GAG	ACC	CTC	CTA	GAC	AAA	TTC	TAC	ACT	GAA	CTC	TAC	CAG	CAG	CTG
641																
642	630	<b>~1.</b> .	mb	T 0	T 0	7\ ~~	T +	Db.	TT	mb	<b>~1</b>	T 011	Ma	~1 <i>~</i>	C1 -	T 011
643 644	Asp	GIU	Inr	ьеи 80	ьeu	Азр	пув	File	85	THE	GIU	ьeu	TAT	90	G111	Leu
645				80					65					50		

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:50:14

														1/\	PUI	SE1: 52393
646	AAT	GAC	CTG	GAA	GCC	TGT	GTG	ATA	CAG	GGG	GTG	GGG	GTG	ACA	GAG	ACT
647																
648	678															
649	Asn	Asp	Leu	Glu	Ala	Cys	Val	Ile	Gln	Gly	Val	Gly	Val	Thr	Glu	Thr
650			95					100					105			
651																
652	CCC	CTG	ATG	AAG	GAG	GAC	TCC	ATT	CTG	GCT	GTG	AGG	AAA	TAC	TTC	CAA
653																
654	726															
655	Pro	Leu	Met	Lvs	Glu	Asp	Ser	Ile	Leu	Ala	Val	Ara	Lvs	Tvr	Phe	Gln
656	-	110		4 .		-	115					120	-	4	-	-
657																
658	AGA	ATC	АСТ	СТС	TAT	СТС	ΔΔΔ	GAG	AAG	ΔΔΔ	TAC	AGC	ССТ	тст	GCC	TGG
659				0.0		0.0		00					001	-0-	-	100
660	774															
661	–	Tla	Thr	T.011	Tyr	T.011	Tare	Glu	Larg	Lare	Туг	Sar	Dro	Cve	Δla	Trn
662	125	116	1111	цец	ı yı	130	Lys	Giu	цуз	цуз	135	Der	FIO	Cys	Ата	140
663	125					130					133					140
664	C A C	OTTE:	CITIC	707	GCA	C 7 7	אשמ	אשכ	7 (7 7	m/cm	mmm	mam	mma	max.	ת מ	770
	GAG	GII	GIC	AGA	GCA	GAA	AIC	AIG	AGA	101	111	101	116	ICA	ACA	AAC
665																
666	822		**. 7			~7				<b>a</b>	<b>-</b>	<b>~</b>	<b>-</b>		m1	<b>-</b>
667	GIU	vaı	vai	Arg	Ala	GIU	тте	мет	Arg		Pne	ser	ьeu	ser		Asn
668					145					150					155	
669																
670	TTG	CAA	GAA	AGT	TTA	AGA	AGT	AAG	GAA	TGAT	CAAC	AT C	CGTA	ACTGC	'A	
671																
672	869															
673	Leu	Gln	Glu	Ser	Leu	Arg	Ser	Lys	Glu							
674				160					165							
675																
676	GAAG	CTT	TA													
677	879															
678																

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 10:50:20

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANTS:
36	Unknown or Misplaced Identifier	(viii) ATTORNEY/ AGENT NUMBER:
37	Unknown or Misplaced Identifier	(A) NAME: Esmond, Robert W. RWE/EG
38	Unknown or Misplaced Identifier	(B) REGISTRATION NUMBER: 32,893
39	Unknown or Misplaced Identifier	(C) REFERENCE/DOCKET NUMBER: 0652.1350000
64	Entered (56) and Calc. Seq. Length (0) differ	(A) LENGTH: 56 base pairs
159	Entered (495) and Calc. Seq. Length (0) differ	(A) LENGTH: 495 base pairs
287	Entered (869) and Calc. Seq. Length (10) differ	(A) LENGTH: 869 base pairs
299	# of Sequences for line conflicts w/ running total	CCAACAGCGG 60
359	Entered (1177) and Calc. Seq. Length (0) differ	(A) LENGTH: 1177 base pairs
556	Entered (879) and Calc. Seq. Length (0) differ	(A) LENGTH: 879 base pairs